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Terms Used in This Book  
Special Edition Using XML  
by Lee Anne Phillips  
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## O-P

### Occurrence

In **XML Schema**, the number of times an element or content model can occur.

### ORB

Object Request Broker. In **CORBA**, the infrastructure that enables distributed objects to communicate with each other.

### Origin

**See root.**

### out-of-line link

A link that is not contained within a document.

### parameter entity

In a **DTD**, an entity of the form %name; used only within the DTD. The term and form are meaningless outside the DTD. **See also general entity.**

### Parent

The immediate **ancestor** of a **node**.

**Parser**

A program which understands the syntax of a language and can read an input file and output intermediate productions or modified data streams that another program can use. XML parsers may also be able to **validate** the input file based on a defining **schema**.

**Persistent Uniform Resource Locator (PURL)**

A **URL** intermediated through a resolution server that redirects references to their current locations. This supplies a level of persistence to resources that might otherwise change physical addresses on the Web.

**physical structure**

The total collection and arrangement of data storage units that forms an XML document.

**PICS**

The Platform for Internet Content Selection. Originally developed for facilitating parental control of children's access to Web sites, this metadata label syntax also supports Internet privacy and digital signatures.

**Preamble**

The optional introductory portion of an XML Document containing any combination of an XML declaration, a DTD declaration, and processing instructions.

**predefined entity**

One of a handful of character entities so important to XML processing that their corresponding general entities are predefined. They are "<", ">", "&", "'", and '"'. They can theoretically be used without declaring them like this: &amp;, &lt;, &gt;, &apos;, and &quot;. For compatibility with some older processors, they should be declared anyway. Their declarations should look like this: <!ENTITY lt "&#38;#60;">, <!ENTITY gt "&#62;">, <!ENTITY amp "&#38;#38;">, <!ENTITY apos "&#39;">, and <!ENTITY quot "&#34;">.

**Predicate**

In logic, a term indicating a property or relationship. Also, whatever is affirmed or denied in a logical proposition. In a sentence, a verb or verb phrase with or without an object. In **RDF**, a specific attribute with defined meaning that might be used to describe an **RDF resource**. See **property**.

**presence**

In **XML Schema**, the occurrence in the XML document content of an optional element, attribute, or data.

**prettyprinting**

Processing a code file so that it obeys certain formatting conventions that make it easier to understand or edit. Usually this is *performed by placing complete statements on separate lines and indenting each line to reflect the current nesting level*. See **beautifying**.

**processing instruction**

In a **DTD**, a special instruction of the form <?processor data ?> that instructs the XML processor to pass the enclosed data directly to an external processor.

**Prolog**

In a **DTD**, that part of an XML DTD or document that precedes and includes the DOCTYPE declaration. It consists of the XML declaration, optional comments, and the document type declaration.

**Property**

In **RDF**, another name for a **predicate**. A specific attribute with defined meaning that might be used to describe an **RDF resource**. See also **arc**, **literal**, and **metadata**.

## PURL

See **Persistent Uniform Resource Locator.**

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